		Ariel.	Umbriel.	Titania.	Oberon
1	1870. I 2	243 ·	325	127	294
	13	107	229	80	263
	14	325	151	33	232
	15	176	56	357	204
	16	29	336	321	181
	17	250	243	2 77	159
	18	114	162	229	135
	19	330	71	189	106
	20	181	347	154	75
	2 1	35	2 57	114	44
	22	256	172	65	18
	23	120	86	22	355
	24	. 335	357	346	333
	25	186	274	310	308
	26	41	182	263	278
	27	264 .	101	216	246
	28	126	8	179	216
	29	340	288	144	192
	30	191	193	100	169
	31	47	115	51	146
Apr.	I	271	19	. 11	120
	2	132	302	336	90
	3	345	205	297	58
	4	196	128	249	29
	5	53	31	204	5
	6	278	314	169	343
	7	I 37	217	132	320
	8	350	141	86	293

The Apparent Distances vary between the Limits

Ariel	15	and	12
\mathbf{U} mbriel	2 I		16
Titania	35		27
Oberon	46		36

The Zodiacal Light. By Capt. Noble.

On the evening of March 3rd, from 7^h 40^m to 8^h, L.M.T., this phenomenon was much brighter and more conspicuous than I have ever seen it before, surpassing in vividness that part of the Milky Way running through *Cepheus* and *Cygnus*, which was, of course, favourably situated for comparison. It is stated in most of the popular books on Astronomy, that the axis of the

Zodiacal Light nearly coincides with the ecliptic; but, on the occasion to which I refer, it certainly trended considerably to the right of it (as viewed with the naked eye). The boundaries of the light were not well defined. It involved α , β , and γ Arietis, and extended a little way upwards towards Andromeda. The Pleiades were markedly to the left of it, and separated from it by an unmistakable gap of dark sky. Allowing for the difficulty of estimating accurately the axis of a figure, which requires averted vision to reduce to anything like shape; and speaking roughly, I should say that such axis was inclined some 20° to the ecliptic, according to the best estimation that I could form.

Forest Lodge, Maresfield, Sussex, March 10th, 1870.

Occultation of a Star by the Moon. By Capt. Noble.

Thursday, February 10th, 1870, m Tauri disappeared instantaneously at the Moon's dark limb at 6^h 33^m 30^s·2, L.S.T.=9^h 10^m 33^s·1, L.M.T. and reappeared at the bright limb somewhere about 7^h 12^m 45^s, L.S.T.=9^h 49^m 41^{s·5}, L.M.T. This was an unsatisfactory observation, as no determination was made of the errors of adjustment of the Transit when the time was taken; and, in addition, the reappearance was badly seen, the star being clear of the Moon's limb when first glimpsed. Power, 255, adjusted on the star.

Observations of Venus near her inferior Conjunction. By Capt. Noble.

The day on which the Planet was actually in inferior conjunction was densely cloudy here; but on the previous one, Tuesday, February 22nd, I observed her at 2^h 10^m, L.M.T. when she was within 24^h 14^m of such conjunction. She presented the appearance of an exquisitely delicate thread of light, the line joining the cusps being a chord less than a diameter: in other words, the hair-like luminous line did not extend round a semicircle. A defect in the driving-clock of my Equatoreal precluded me from making any micrometrical measurements, however, and this must be my excuse for speaking thus vaguely. Constricting the field of view of a Huyghenian eye-piece magnifying 154 times by means of a card diaphragm pierced with a central needle line, I could see, plainly enough, the dark body of the planet. sky was somewhat hazy, and I could not trace the dark limb quite round; but its difference of tint from that of the surrounding sky was evident the instant Venus was regarded. I employed powers of 74, 115, and 154. Vision was most satisfactory with the latter.